

**INTERAGENCY COORDINATING COMMITTEE (IACC)
MARINAS AND RECREATIONAL BOATING WORKGROUP
MEETING MINUTES FOR THE November 8, 2007 Meeting**

SAVE THE DATE: The next in-person meeting is scheduled for **Thursday January 10, 2008, from 10-12.**

Meeting Attendees: Molly Munz (State Water Resources Control Board), Julie Cunningham (Dept. of Fish & Game), Nan Singhasemanon (Dept. Pesticide Regulation)

Telephone/Web Ex Attendees: Steve Fagundes (State Water Resources Control Board), Lisa Sniderman (California Coastal Commission), Val Bradshaw (Dept. of Parks and Recreation), Sahrye Cohen (SF Bay BCDC), Stefanie Hada (LA Regional Board), Leigh Taylor Johnson, Jaime Gonzalez (Sea Grant Program), Peter Von Langen (Central Coast Regional Board), Dan Little (Central Valley Regional Board), Linda Candelaria, Athar Khan (Santa Ana Regional Board), Logan Raub (Colorado River Regional Board), Joel Hanson (Santa Monica Bay Restoration Commission), Louanne McMartin (US Fish & Wildlife Service), Bryan Moore, Wen Baldwin (National Park Service), Suzan Given (Co. of Orange).

1. Announcements, Review of Action Items

Lisa (CCC) reviewed the Action Items from the September 13th Marina IACC meeting and provided or asked others to provide updates. Lisa sent a letter to Tim Leathers with the Clean Marinas California Program (CMCP), formally thanking him for his review of our comments and requested that he update the group on when the comments will be incorporated into the next revision of the CMCP. The remaining action item updates were tabled until the next IACC.

Carry-Over Action Items:

- Molly (SWRCB) will send Marina IACC one more request for info re: California Marina studies including screening monitoring data vs. criteria (e.g., TMDL, report, special studies, projects, etc.). She hopes to present preliminary findings from these marina studies to Marina IACC on March 13th 2008.
- Lisa Sniderman (CCC) indicated that she sent a letter to the Clean Marina Program to follow up on comments and recommendations. She will provide an update on the CMCPs response at the next meeting.
- Linda Candelaria (Santa Ana Regional Board) will give update at January 10th 2008 meeting on Newport Bay studies and copper report.
- Stefanie Hada (Los Angeles Regional Board) will discuss TMDLs for Marina Del Ray: Toxic pollutants TMDL and copper TMDL. Other areas included in LA TMDL studies include Mothers Beach and other Back Basin Beaches. Stefanie will provide this info at the January meeting.
- Nan Singhasemanon (DPR) told the group that copper subcommittee meetings are postponed until the report is ready. In the interim, He is meeting with State Board to draft internal memos to determine how to resolve issues before the board meeting.
- Once posted, Peter (Central Coast Regional Board) will send Lisa the link to the stormwater permit for City of Santa Barbara and Lisa will forward the link to Marina IACC.

Introduction/Purpose: This IACC featured two case studies on controversial and resource intensive eradication project dealing with invasive species in freshwater systems: Quagga Mussels in Lake Mead and Northern Pike in Lake Davis. The Quagga threaten Industrial, Municipal, Irrigation beneficial uses, i.e. water transfer and conveyance structures (pipes, pumps and related infrastructure) – specifically in the Colorado River Region (Regional Board #7), by attaching to structures and clogging intakes which can harm pumps. The Pike have a negative

effect on recreation beneficial use by decimating native and stocked trout populations and reducing biodiversity in Lake Davis. It is thought that if these ambush predators migrate or are put into the San Joaquin-Sacramento Rivers they can harm and further jeopardize endangered species such as the Delta Smelt.

2. **Quagga Mussels, *Dreissena rostriformis bugensis*, in Lake Mead: Five Lakes in California are impacted.**

Wen Baldwin (wenbald@earthlink.net): is a volunteer for the National Park Service and the 100th Meridian Initiative and has been actively involved in quagga response efforts in the Lower Colorado River region. Wen is also co-instructor of CDFG's Watercraft Inspection Training.

- Mussels in Lake Mead, are spawning even in the cold water month (January) vs. in the Great Lakes where spawning is curtailed during the cold water months. Wen has been training boaters and other interested people on how to eradicate these mussels and what to look for when inspecting personal watercraft for mussels. If anyone wants to be trained, please contact Wen directly at his email address.

Bryan Moore (National Park Service, bryan_moore@nps.gov) - Biologist with the National Park Service, has been working on the quagga issue since they were first discovered in January 2007, working mostly on underwater monitoring, also involved in inspections and education for recreational boaters.

- **Monitoring:** Bryan has seen quagga mussels as deep as 300 feet below water surface (bws) of Lake Mead (lower limit of SCUBA dives for safety reasons). The highest concentration is from 50 to 70 feet bws.
- **Decontamination Stations:** High-pressure, hot (>60°C) water kills the planktonic larvae. Adults are scraped off after visual inspection reveals their presence. Dogs can also be used to detect the presence of adult mussels (added by Molly Munz from Sacbee Article, *Dogs sniff out tiny invaders that imperil pipelines*, October 25, 2007). Water from the decontamination is either filtered after collection into a trough, or the station is set up far enough away from the Lake to prevent any larvae from reentering the Lake. No chemicals or soaps are used to decontaminate the boats, hot water seems to work.
- **Boat inspections** are only open a portion of the day and due to Lake Mead's large size, these do not cover all the areas where boaters can enter Lake. Often boaters will put in during the night so as to avoid paying a fee to launch their boats. This is a major weakness in the inspection process.
- **Enforcement:** All boats that leave during inspection facility operating hours are inspected. Some boaters have tried to leave without going through inspections, these individuals have been stopped and their boats inspected.
- **Marinas:** Marina owners request a 72-hour notification prior to arrival, so that boats can be decontaminated prior to entering the Lake. The Marina operators have been very helpful and are a great point-of-contact for education and outreach.
- **Habitat Range:** Upper limits of freshwater bivalve salinity tolerance reach 8-10%. Upper range of temperature tolerance is 25-30°C, possibly up to 39°C for <1 day.
- **References:**

<http://nas.er.usgs.gov/taxgroup/mollusks/zebramussel/>

<http://www.100thmeridian.org/Documents/Talking%20Points%20Regarding%20Western%20Quagga%20Mussels.pdf>

<http://www.dfg.ca.gov/invasives/quaggamussel/>

<http://www.fs.fed.us/r5/lbmu/local/invasive/quagga.shtml>

http://www.des.water.ca.gov/zmwatch/program_overview/index.cfm

3. **Northern Pike, *Esox lucius*, Eradication Project in Lake Davis**

Julie Cunningham, Staff Environmental Scientist with Department of Fish & Game, (530) 832-4069, JCUNNINGHAM@dfg.ca.gov.

- Julie presented a slide show and described the history and previous attempts at eradicating Pike from Lake Davis, then described the newly improved process of applying rotenone to Lake Davis and its tributaries. She described the monitoring and environmental sampling done to limit the amount of rotenone applied and well as monitoring conducted for worker health & safety. She also described the ambush predation style of Northern Pike, and how successful they are at decimating trout populations.
- Major cause for concern is the Pike's ability to obliterate fish populations and the potential for this fish to migrate from Lake Davis and enter the Delta.
- Cost: The cost for this project is around \$26 million (Prop. 50, CalFED).
- Habitat: Pike prefers shallow water (<40 feet) with weed beds & slow-moving water. Pike tolerates a wide range of temperature fluctuations, prefers clear water (visual predator), tolerates low oxygen, and can live in water with up to 18 ppt salinity.
- Geography: Lake Davis is a relatively shallow reservoir that has perfect Pike Habitat.
- Education and outreach programs are in place with hopes that Pike will not appear in Lake Davis again. It is unknown how the Pike were put into Lake Davis to begin with, some think that fisherman from the East Coast (familiar with Pike) stocked the Lake.
- References: <http://www.dfg.ca.gov/lakedavis/>

4. **HACCP TOOL**

Louanne McMartin (US Fish and Wildlife Service), gave an overview of Hazard Analysis and Critical Control Point Planning (HACCP) tool, available at <http://www.haccp-nrm.org>
You can reach Louanne at (209)946-6400 ext. 337, or by email at Louanne_McMartin@fws.gov

- This on-line planning tool uses a vector-based hazard analysis to identify critical areas that should be analyzed and invasive species removed and/or decontamination procedures followed. Any field work in biologically active areas has the potential to inadvertently transfer non-native and potentially invasive species. This on-line tool has a wizard that prompts the user to complete the plan. The plan is a working document, is easy to use, and can help prevent the spread of materials (biological or chemical).

5. **Future Action Items:**

USEPA has not created any Management Measures (MM) that address invasive or nuisance species. Molly Munz would like to work on creating a list of MM and associated Management Practices (MP) for invasive species control for marinas and recreational boating: She needs your help. A subcommittee of the Marina IACC will be formed to work on gathering these resources for an on-line database, and to continue to share ideas on controlling invasive species in activities related to marinas and recreational boating. Some MM that come to mind are

- 1) Chemical controls: aquatic pesticides, chlorine, copper-based antifouling paint, etc.
- 2) Physical controls: habitat alteration, lowering water levels, etc.
- 3) Ecological controls/integrated pest management: quagga sniffing dogs, owl boxes, etc.

6. **New Action Items:**

- Lisa will work with Molly and interested Marina IACC participants to form subcommittee to work on marina and recreational boating-related invasive species issues.

Meeting Minutes Prepared by: Molly Munz, State Water Resources Control Board